

# RECLAMATION

*Managing Water in the West*

## Reclamation's WaterSMART Program

October 23, 2018  
Wenatchee, Washington

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U.S. Department of the Interior  
Bureau of Reclamation

## Reclamation's Mission

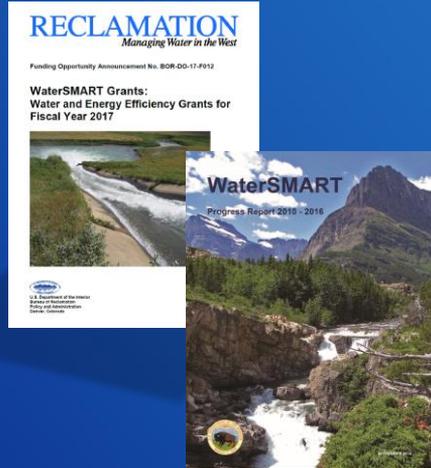
The mission of the Bureau of Reclamation is to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public.



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# WaterSMART Program: Overview of Program and Tips for Applying

- What is WaterSMART?
- Overview of WaterSMART Funding Opportunities.
- Tips for Applying



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## WaterSMART

### WaterSMART:

- Increase water supply reliability through investments and attention to local water conflicts
- Supports water conservation and water management improvements to help meet competing demands for water
- Leverages Federal and non-Federal funding
- Relies on collaboration with stakeholders to develop local solutions to water supply problems



Growing Populations



Environmental Water Needs



Drought

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# WaterSMART Program

Helps implement Reclamation's mission by working to increase water supply reliability through investments and attention to local water conflicts in order to meet our Nation's water needs.



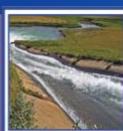
**Basin Study Program**

Collaborative Planning



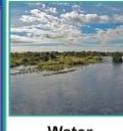
**Title XVI Program**

Water Reclamation and Reuse



**WaterSMART Grants**

Water Conservation and Efficiency



**Water Conservation Field Services Program**

Water Conservation Planning and Design



**Drought Response Program**

Planning and Building Resiliency



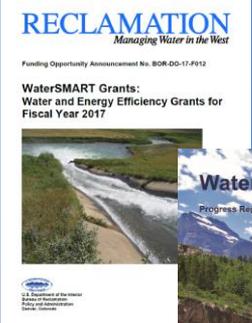
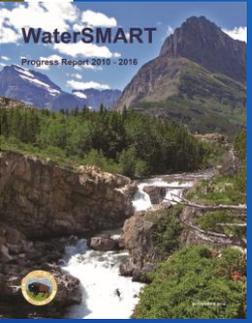
**Cooperative Watershed Management Program**

Watershed Management and Restoration

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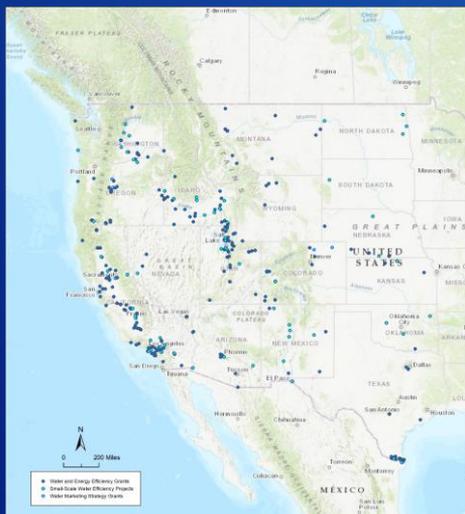
# WaterSMART Program: Overview of Program and Tips for Applying

- What is WaterSMART?
- Overview of WaterSMART Funding Opportunities
  - WaterSMART Grants
  - Drought Response Program
  - Title XVI and Desalination
  - Cooperative Watershed Management Program
- Tips for Applying

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# WaterSMART – A closer look at of the WaterSMART opportunities



WaterSMART Grants



Drought Response Program



Title XVI



Cooperative Watershed Management Program

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## WaterSMART Funding Opportunities

### Eligible Applicants

- States, Indian Tribes, Irrigation Districts, Water Districts, Other organizations with water and power delivery authority.

### Cost Share

- 50% non-Federal cost-share requirement (in kind contributions are allowed)

### Time Frame for Completion

- 2-3 years depending on the program and funding group

### Funding Amounts

- Amount of Federal funding that may be requested per project varies, ranging from \$75k to \$1 million

### Prioritization Criteria

- Criteria vary by program, but generally include project benefits, stakeholder support and/or planning, project implementation, and nexus to BOR.

**\*\*Note: A few exceptions that I will point out during my presentation\*\***

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## WaterSMART Grants (FY19 Appropriations \$34 M)

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**Water and Energy Efficiency Grants**



**Small-Scale Water Efficiency Projects**



**Water Marketing**

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## WaterSMART Grants Water and Energy Efficiency Grants (approx. \$25M)

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- Water and Energy Efficiency
- Canal lining/piping
- Municipal metering
- Irrigation flow measurement
- SCADA
- Landscape irrigation measures
- Hydropower
- 50/50 cost share –
  - Funding Group I: Up to \$300k in two years;
  - Funding Group II: Up to \$1 Million in 3 years
- Criteria: Quantify water savings

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## 2015 Three Sisters Irrigation District, Oregon

- Piping 14,000 ft of open canal
- Expected 1,900 ac-ft/yr of water savings
- Expedite on-farm irrigation improvements
- Collaboration with Deschutes River Conservancy to dedicate to in-stream flows



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## WaterSMART Grants

### Small-Scale Water Efficiency Projects (approx. \$3M)



- Small-scale on-the-ground projects
  - Canal lining/piping
  - Automation
  - Metering and flow measurement
  - Landscape irrigation measures
- 50/50 cost share - up to \$75K in Federal funds
- Total project construction cost of under \$200,000
- Streamlined Application Process
  - Simplified Evaluation Criteria
  - Clarified necessary budget documentation

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## Quincy-Columbia Basin Irrigation District

- Automation of a lateral turnout on the West Canal.
- Significant flow changes in the canal result in surplus deliveries being lost as operational spills
- Will correct the elevation changes, maintain a constant flow, and reduce spills.
- The project will meet a goal of the District's Water Conservation Plan.

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## 2017 Helendale Community Services District, Southern California

- Installation of 400 Advanced Metering Infrastructure (AMI) Smart Meters, 400 AMI radios, a radio tower, and all necessary hardware to upgrade their outdated meters.
- AMI technology will assist the District in water planning, water conservation efforts, and enhance customer service.
- The project is part of the District's Capital Improvement Plan.



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# WaterSMART Grants

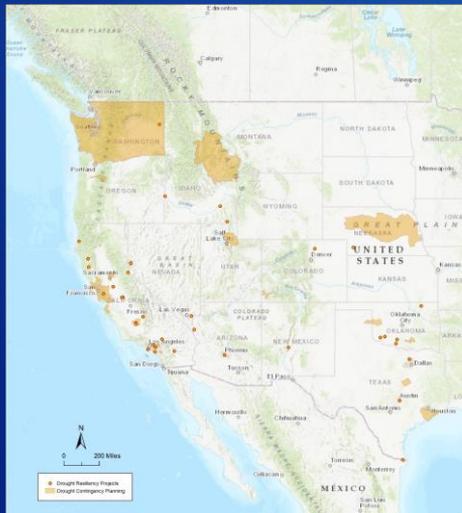
## Water Marketing Strategy Grants (approx. \$3M)



- Strategies to establish or expand water markets or water marketing activities
- 50/50 cost share
- Funding Group I – Up to \$200k for a 2-year project
- Funding Group II – Up to \$400k for a 3-year project
- Funding may be used for planning activities, including:
  - Outreach and partnership building
  - Scoping and planning activities
  - Development of a framework (processes, approach, agreements, etc) for implementation

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# Drought Response Program (FY19 appropriations \$4 million)



Drought Contingency Planning



Drought Resiliency Projects

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## Drought Response Program- Drought Resiliency Projects

### Eligible Projects Include:

- Infrastructure Improvements
  - Modifying surface water intakes
  - New conveyance system components
  - Additional water storage
  - Recharge facilities
  - Capture and treat alternative supplies
- Decision Support Tools & Modeling
  - Tools to support water marketing
  - Tools to convey water supply information
  - Measurement
- Environmental Protection
  - Improve habitat
  - Install fish screens and ladders



Projects build resilience to drought



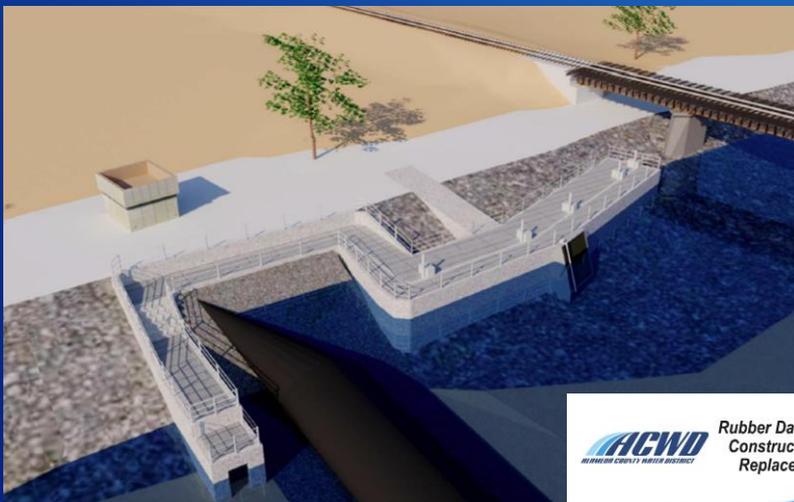
Projects supported by a drought plan are more competitive



Funding Level I: \$300k  
Funding Level II: \$750k

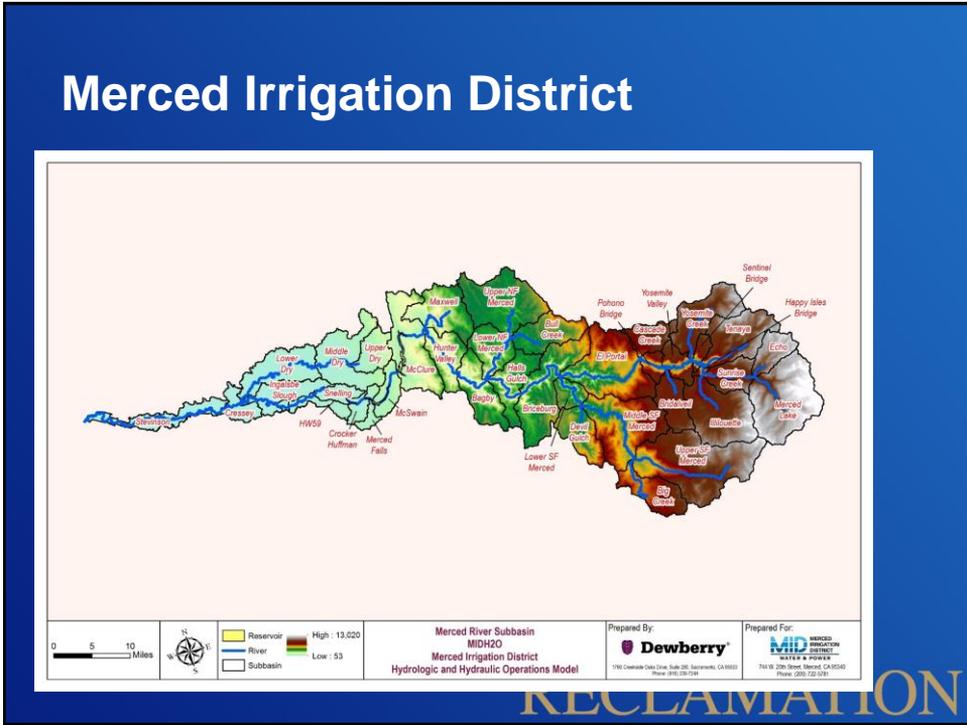
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## Alameda County Water District



Rubber Dam No. 3 Fishway  
Construction and Fabric  
Replacement Project

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## Drought Response Program- Drought Contingency Plans

The **East Bay Municipal Utility District** and other regional water management agencies within the Bay Area in California will develop a drought contingency plan

The **Washington State Department of Ecology** will update its drought contingency plan, last published in 1992.

The **Dolores Water Conservancy District** in **Colorado** will develop a drought contingency plan with the Ute Mountain Ute Tribe Farm and Ranch Enterprise, and the Montezuma Valley Irrigation Company.

**Drought Contingency Plan**

Establish Diverse Task Force and Objectives

Develop Monitoring Plan

Conduct Vulnerability Assessment

Identify Mitigation and Response Actions

Develop Administrative Framework

Identify Plan Update Process

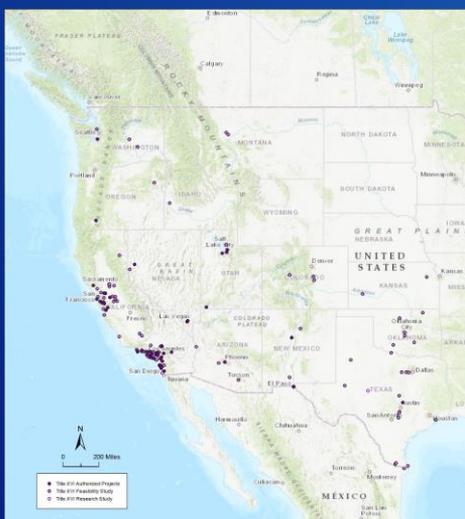
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## Drought Contingency Planning Steps

- Establishment of a Drought Planning Task Force
- Development of a Detailed Work Plan
- Development of a Communication and Outreach Plan

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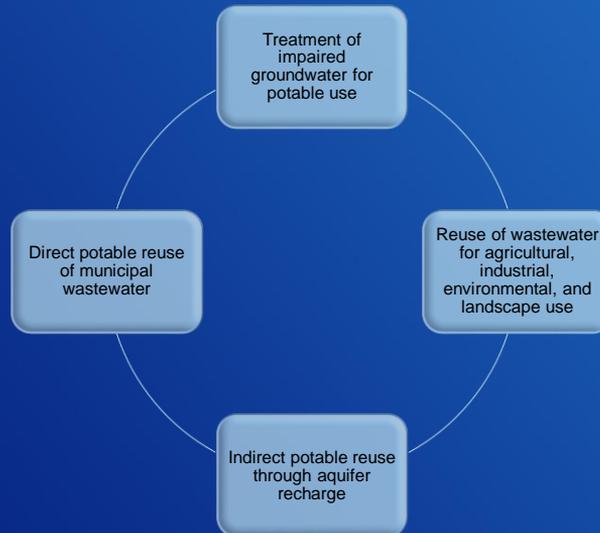
## Title XVI Program



- Planning, design, and/or construction of:
  - Congressionally authorized Title XVI projects
  - New projects eligible under section 4009(c) of WIIN
- FY 2019 Appropriations include \$58.6 million for the Title XVI Program

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## Examples of Types of Projects

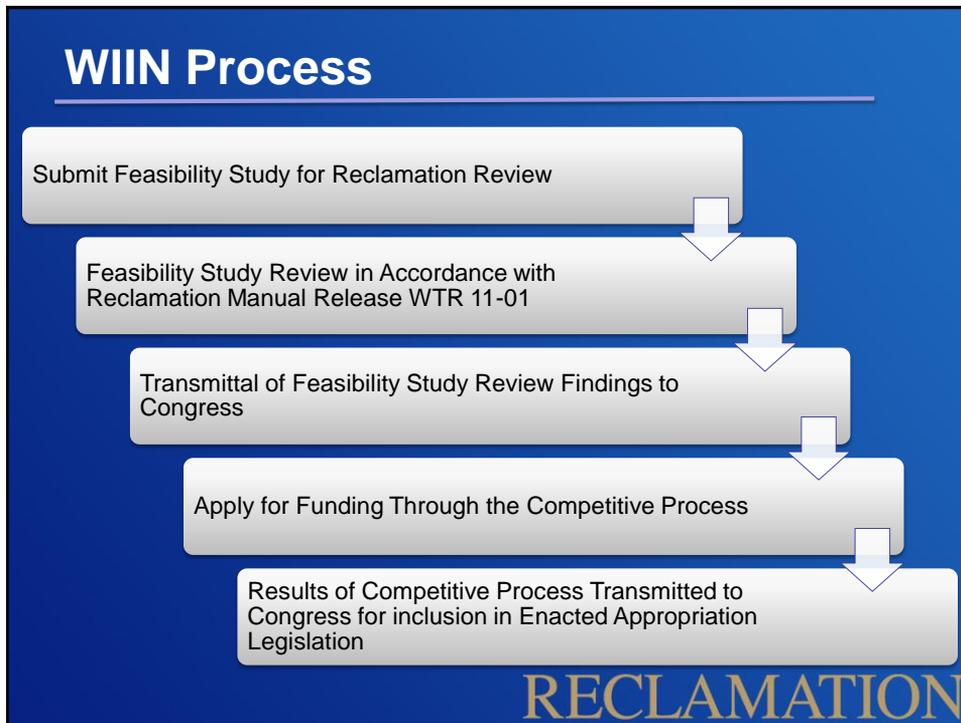


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## Title XVI Funding Opportunity

- **Maximum federal cost share – 25%**
  - Can request up to 25% of the cost of work that will be completed over the next two years
  - Can reapply each year until Federal share reaches 25% of total project cost, up to \$20 million
- **Pre-award costs are allowed**
  - Authorized projects = date of congressional authorization
  - WIIN projects = date feasibility study findings are transmitted to Congress
- **NEPA must be complete prior to the commencement of ground disturbing activities**

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## Desalination Projects



- Section 4009(a) of the WIIN Act includes amendments to the Water Desalination Act of 1996 (P.L. 104-298)
- WIIN Section 4009(a) amendments provide a path for ocean or brackish water desalination projects to receive Federal funding

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## Desalination Projects – Current Status

- In FY 2019 Congress appropriated \$12 million for projects under Section 4009(a) of the WIIN Act
- Reclamation anticipates posting the FY 2019 funding opportunity announcement for WIIN Desalination Projects in January 2019

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## WaterSMART

Cooperative Watershed Management Program  
(FY19 Appropriations \$2.25 million)



Note: Applicant eligibility differs from other programs

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## WaterSMART - What's New Cooperative Watershed Management Program

**Phase II**

- Implement watershed management projects

**Funding opportunity is currently open!** Applications are due January 30, 2019.

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## WaterSMART Cooperative Watershed Management Program

### The Boise River Enhancement Network

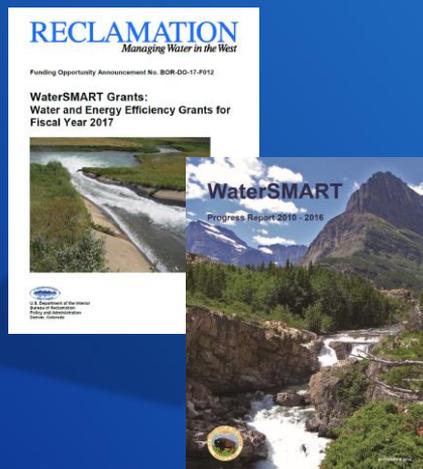
- Through a 2014 **CWMP Phase I** grant, the Network developed the Boise River Enhancement Plan, focusing on stream channel function, fisheries and aquatic habitat, wetland and riparian habitat, and water quality concerns.
- The Network is currently working on a 2017 **CWMP Phase II** project to 'daylight' a previously buried section of Cottonwood Creek, which will improve habitat for Rainbow and Brown Trout. This project was identified as a priority in the Enhancement Plan.




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## WaterSMART Program: Overview of Program and Tips for Applying

- What is WaterSMART?
- Overview of WaterSMART Funding Opportunities.
- **Tips for Applying**



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## Check Applicant Eligibility

- Under P.L. 111-11, Section 9502, an eligible applicant is a state, Indian tribe, irrigation district, water district, **or other organization with water or power delivery authority.**

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## Federal Funding Amount and Eligible Project Types

- Check the eligible project types to ensure you are applying under the appropriate funding opportunity.
- Check the Funding Opportunity to see how much Federal funding you can request.

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## Non-Federal Cost Share Contribution

- **Check the non-Federal cost share requirement:** For most programs, recipients must contribute at least 50% of the total project costs from a non-Federal source.
- **State grant funds and loans** may be relied on to meet the non-Federal cost share contribution (some exceptions if from a Federal source), and you do not need to have received the state grant at the time you submit your application.
- **Third Party “In-kind” contribution and applicant expenses:**
  - third-party labor
  - donation of materials
  - equipment use
  - Applicant expenses (e.g., allocable salaries and wages)

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## Addressing the Evaluation Criteria

- Copy the evaluation criterion verbatim and address each, in detail, within the proposal.
  - Try to address all evaluation criterion, even those that the proposed project may only have ancillary benefits.
  - Provide support for your statements wherever possible (e.g., cite to reports, research or other sources of information)

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## Addressing the Evaluation Criteria

- Be sure to provide DETAILED SUPPORT for all claims in your proposal. For example:

**Canal Lining/Piping:** Canal lining/piping projects can provide water savings when irrigation delivery systems experience significant losses due to canal seepage. Applicants proposing lining/piping projects should address the following:

a) *How has the estimated average annual water savings that will result from the project been determined? Please provide all relevant calculations, assumptions, and supporting data.*

Two inflow/outflow tests were done in August 2016. The first tests were done at intervals of approximately one mile along the entire length and a more detailed follow up study was done in the high flow loss areas. The canal diversion gates were closed during the tests. More details about the tests are given in the following section.

The water savings were determined for each of the canal segments by finding the difference in flow through a segment of canal, measured in cubic feet per second. These flows were then converted to an acre feet per year volume assuming a six-month irrigation season. The following equation shows how the total savings for the Project were calculated.

**Overall project annual acre-feet savings per mile equation:**

$$\left[ \frac{(35cfs - 27cfs) + (14cfs - 11cfs)}{(41450ft - 39020ft) + (52600ft - 50630ft)} \right] * \frac{60sec}{min} * \frac{60min}{hr} * \frac{24hr}{day} * \frac{30day}{mo} * \frac{6mo}{yr} * \frac{1ac}{43560ft^2} * \frac{5280ft}{1mile}$$

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## Addressing the Evaluation Criteria

- **Unsupported claims will not receive a high score from the ARC:**

During the summer of 2016, staff estimated flows at all Main Canal lining drain exits. This was done by visual inspection and estimation of the amount of water flowing by an experienced Watermaster and engineering staff.

Over the years, staff has gained considerable experience in estimating flows by sight when comparing visual estimates to measured flow at lining drain exits where weir blades could be installed relatively easily. Staff also gained considerable confidence estimating these flows during the 2015 drought when looking for the best sites to install diesel powered pumps to pump the exiting water back to the Main Canal.

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## Addressing the Evaluation Criteria

- **The Application Review Committee is required to evaluate only the information that has been provided in the 4 corners of your proposal and may not use outside knowledge of the area, issues or project.**
- **Therefore, it is important to provide sufficient background and detail even regarding things that may seem obvious.**
  - E.g., if the facilities in question are part of a Reclamation project, explicitly state that in your proposal.

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## Proposed Activities and Milestones

- Provide a clear, detailed description of the proposed project activities and proposed milestones.
- Ensure that the activities described in the technical project description line up with the budget
- If the project is a phase of a larger project, only address discuss the benefits and include milestones for the activites that will be funded as part of the WaterSMART project.

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## Environmental Compliance

- Contact your local Reclamation office to discuss the necessary environmental and cultural resource compliance required for your project under NEPA, especially when developing your budget and schedule.

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## Application Submission

- **Make sure to submit *at least* a couple of days in advance of the due date, regardless of whether submitting via Grants.gov or via hard-copy submission.**
  - Late proposals, unless it is due to government mishandling (which is very rare) are not accepted and evaluated.
- **Do not include application preparation costs in project budget.**

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## Award Preparation

- **Start necessary registrations early – processes take time**
  - **DUNS (Data Universal Number System) Number** – used to establish a business credit file and required to register in SAM.gov
  - **SAM.gov (System for Award Management)** – required to receive a Federal grant or cooperative agreement
  - **ASAP.gov (Automated Standard Application for Payments)** – required to access awarded Federal funds

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## Contact the Program Coordinator with Questions

- **Reach out to the Policy office when preparing your proposal.**
  - We can help answer questions about which WaterSMART opportunity fits best with your proposed project.
  - We can also answer questions about how to interpret the criteria and the proposal requirements.
  - And, we will refer you to the financial assistance experts to answer questions about requirements under the FAR.

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## WaterSMART Program Tentative Schedule

Program	Opportunity	Post Date	Close Date
Title XVI	Authorized Projects/WIIN	January 2019	March 2019
WIIN Desalination Construction	WIIN Desalination Construction	January 2019	March 2019
Drought Response Program	Drought Contingency Planning	November 2018	January 2019
	Drought Resiliency Projects	November 2018	January 2019
WaterSMART Grants	Water and Energy Efficiency Grants	December 2018	February 2019
	Small-Scale Water Efficiency Projects	December 2018	April 2019
	Water Marketing	January 2019	March 2019
Cooperative Watershed Management Program (CWMP)	Phase I (Watershed group development and restoration planning)	Spring 2019	Summer 2019
	Phase II (Watershed Management Projects)	October 10, 2018	January 30, 2019

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# WaterSMART Data Visualization Tool

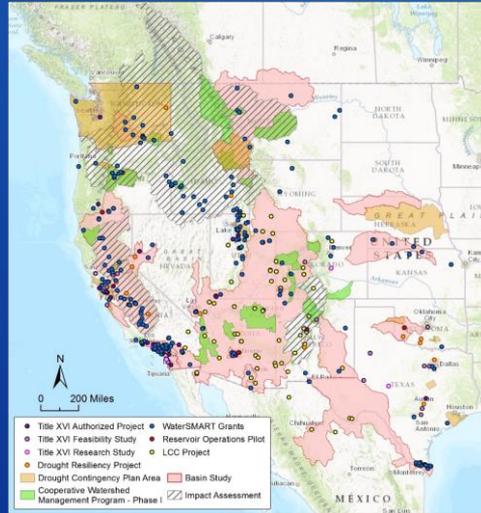
## Reclamation Programs

Data visualization site is an interactive companion to this report:

- Interactive maps
- Featured project tours
- Program growth over time

<https://www.usbr.gov/watersmart/>

Data Visualization Tool:  
[arcg.is/1TcT68S](http://arcg.is/1TcT68S)



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## WaterSMART Program – Website Links

<b>Title XVI</b>	<a href="https://www.usbr.gov/watersmart/title/index.html">https://www.usbr.gov/watersmart/title/index.html</a>
<b>WaterSMART Grants</b>	Water and Energy Efficiency Grants – <a href="https://www.usbr.gov/watersmart/weeg/index.html">https://www.usbr.gov/watersmart/weeg/index.html</a> Small-Scale Water Efficiency Grants - <a href="https://www.usbr.gov/watersmart/weeg/ssweg.html">https://www.usbr.gov/watersmart/weeg/ssweg.html</a> Water Marketing Grants - <a href="https://www.usbr.gov/watersmart/weeg/watermarketing.html">https://www.usbr.gov/watersmart/weeg/watermarketing.html</a>
<b>Drought</b>	<a href="https://www.usbr.gov/drought/">https://www.usbr.gov/drought/</a>
<b>CWMP</b>	<a href="https://www.usbr.gov/watersmart/cwmp/index.html">https://www.usbr.gov/watersmart/cwmp/index.html</a>

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## Who to Contact

### WaterSMART Program Coordinators

#### **Water and Energy Efficiency Grants**

Josh German  
(303) 445-2839  
[jgerman@usbr.gov](mailto:jgerman@usbr.gov)

#### **Small-Scale Water Efficiency Projects**

Robin Graber  
(303) 445-2764  
[rgraber@usbr.gov](mailto:rgraber@usbr.gov)

#### **Water Marketing Strategy Grants**

Avra Morgan  
(303) 445-2906  
[aomorgan@usbr.gov](mailto:aomorgan@usbr.gov)

#### **Drought Response Program**

Darion Mayhorn  
(303) 445-3121  
[dmayhorn@usbr.gov](mailto:dmayhorn@usbr.gov)

#### **Title XVI and Desalination**

Amanda Erath  
(303) 445-2766  
[aerath@usbr.gov](mailto:aerath@usbr.gov)

#### **Cooperative Watershed Management Program**

Avra Morgan or Robin Graber  
(303) 445-2906  
[aomorgan@usbr.gov](mailto:aomorgan@usbr.gov)

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# Thank you!

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303-445-2764

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